

METHOD OF PRODUCING POLYACRYLAMIDE HYDROGEL

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Abstract

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**Polyacrylamide hydrogel prodn. - by radical polymerisation of
polyacrylamide in aq. medium, in presence of ammonium
persulphate-chlorophyll redox system**

Patent Assignee: SAMARKAND MEDIC INS (SAMA-R)

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Abstract (Basic): SU 1608193 A

Use of chlorophyll from the excretions of mulberry silkworm (I) as
the amine-contg. reducer in the redox system with ammonium persulphate
(II) (oxidiser), used in the prodn. of polyacrylamide hydrogel,
increases the efficiency of the process and quality of prod.

The hydrogel is obtd. by radical polymerisation of acrylamide
(III) in aq. medium under the action of redox system, with
(III):(II):(I) equal to 1:0.18:0.035-0.00035 respectively.

USE/ADVANTAGE - Used in chemistry of polymers to prepare
polyacrylamide hydrogel using simpler method. The prod. absorbs more
water and can be used in medicine, biotechnology and agriculture.

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Title Terms: POLYACRYLAMIDE; HYDROGEL; PRODUCE; RADICAL; POLYMERISE;
POLYACRYLAMIDE; AQUEOUS; MEDIUM; PRESENCE; AMMONIUM; PERSULPHATE;
CHLOROPHYLL; REDOX; SYSTEM

Derwent Class: A14; E12

International Patent Class (Additional): C08F-020/56



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